
Arnica lanceolata subsp. *prima*, the Correct Name for *Arnica lanceolata* Nuttall subsp. *amplexicaulis* (Nuttall) Gruezo (Asteraceae, Heliantheae)

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ABSTRACT. The new combination *Arnica lanceolata* subsp. *prima* (Maguire) Strother & S. J. Wolf is proposed as the correct name for *Arnica lanceolata* subsp. *amplexicaulis* (Nuttall) Gruezo.

Key words: *Arnica*, Asteraceae, Heliantheae, nomenclature.

Under Art. 52.1 of the *International Code of Botanical Nomenclature* (Greuter et al., 2000), the name *Arnica lanceolata* Nuttall subsp. *amplexicaulis* (Nuttall) Gruezo (Gruezo & Denford, 1994) is illegitimate.

Arnica amplexifolia Rydberg was published as a substitute for *A. amplexicaulis* Nuttall because Rydberg (1900) took *A. amplexicaulis* Nuttall to be a later homonym of the *A. amplexicaulis* of Candolle (1838), a name published as a synonym under *Ligularia amplexicaulis* DC. Under Art. 34.1(c), the *A. amplexicaulis* of Candolle was not validly published. Although Rydberg's *A. amplexifolia* was illegitimate under Art. 52.1, Maguire (1942) accepted what Rydberg had done and published *A. amplexifolia* Rydberg subsp. *prima* Maguire. In 1943, Maguire concluded that Rydberg was mistaken and Maguire corrected himself by publishing *A. amplexicaulis* Nuttall subsp. *prima* (Maguire) Maguire.

Ordinarily, an autonym has priority over the name that caused establishment of that autonym (Art. 11.6). Under Art. 27.1, the autonym *A. amplexifolia* Rydberg subsp. *amplexifolia* was not created upon publication of *A. amplexifolia* subsp. *prima* because *A. amplexifolia* Rydberg is illegitimate. Under Art. 55.2, the epithet *prima* in *A. amplexifolia* Rydberg subsp. *prima* Maguire is legitimate. Maguire's *prima* of 1942 is the earliest legitimate and available epithet for a taxon at subspecies rank with the circumscription and position adopted here.

Arnica lanceolata Nuttall subsp. ***prima*** (Maguire) Strother & S. J. Wolf, comb. nov. Basionym: *Arnica amplexifolia* Rydberg subsp. *prima* Maguire, *Madroño* 6: 154. 1942. *Arnica amplexicaulis* Nuttall subsp. *prima* (Maguire) Maguire, *Brittonia* 4: 472. 1943. TYPE: U.S.A. Alaska: Kodiak, 28 Aug. 1867, *A. Kellogg 231* (holotype, PH; isotypes, GH, MO, NY, US).

Arnica amplexicaulis Nuttall, *Trans. Amer. Philos. Soc.*, n. s. 7: 408. 1841. TYPE: U.S.A. Oregon: "On the rocks of the Wahlamet, at the Falls," [no date] *Nuttall s.n.* (holotype, BM; isotypes, GH, UC).

Arnica amplexicaulis Nuttall var. *piperi* H. St. John & F. A. Warren, *Proc. Biol. Soc. Wash.* 44: 36. 1931. TYPE: U.S.A. Washington: Cape Horn, 26 June 1904, *C. V. Piper 4692* (holotype, WS; isotypes, UC, US).

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Literature Cited

- Candolle, A. P. de. 1838. *Ligularia*. In: *Prodromus Systematis Naturalis Regni Vegetabilis* 6: 313–316, Treuttel et Würtz, Paris.
- Greuter, W., J. McNeill, F. R. Barrie, H. M. Burdet, V. Demoulin, T. S. Filgueiras, D. H. Nicolson, P. C. Silva, J. S. Skog, P. Trehane, N. J. Turland & D. L. Hawksworth (editors). 2000. *International Code of Botanical Nomenclature* (Saint Louis Code). *Regnum Veg.* 138.
- Gruezo, W. S. & K. E. Denford. 1994. Taxonomy of *Arnica* L. subgenus *Chamissonis* Maguire (Asteraceae). *Asia Life Sci.* 3(2): 89–212.
- Maguire, B. 1942. *Arnica* in Alaska and Yukon. *Madroño* 6: 153–155.
- . 1943. A monograph of the genus *Arnica*. *Brittonia* 4: 386–510.
- Rydberg, P. A. 1900. Catalogue of the flora of Montana and the Yellowstone National Park. *Mem. New York Bot. Gard.* 1: vi–xii, 1–192.